NEWSLETTER

Forthcoming Conference

IEEE Advancing Technology for Humanity

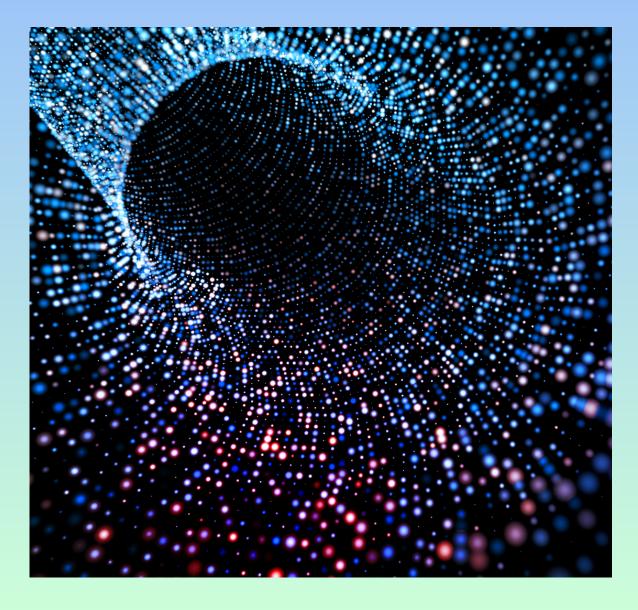**IEEE China Council**
中国联合会

IEEE ICVISP 2024

www.icvisp.org

December 27 to 29, 2024 | Kunming, China

2024 IEEE 8th International Conference on Vision, Image and Signal Processing

It is with great pleasure that we invite you to the 2024 IEEE 8th International Conference on Vision, Image and Signal Processing (ICVISP 2024), which is scheduled to take place from December 27 to 29, 2024, in Kunming, China. The conference is organized by Yunnan Normal University, co-organized by Sun Yat-sen University, Shenzhen University and National Engineering laboratory for Big Data System Computing Technology.

CALL FOR PAPERS

Computer Vision

Object Detection and Categorization
Machine Learning in Computer Vision
Face and Gesture Recognition
Activity/Behavior Recognition
3D Shape and Structure Analysis

Image Processing

Image-based Machine Learning
Real-time Imaging and Video Processing
Deep Learning in Image Processing
3-D and Surface Reconstruction
Automatic Image & Video Annotation

Signal Processing

Adaptive and Clustering Algorithms
Cyclostationary Analysis
Discrete Cosine Transforms
Discrete Hilbert Transforms
Filter Design

Applications

Augmented and Mixed Reality
Autonomous Vehicles
Human-robot Interaction
Robotic Assistance
Mental Health and Cognitive Stimulation

ICVISP 2024 KEYNOTE SPEAKERS

Jianfeng Ren

University of Nottingham Ningbo China

Speech Title: Case Studies of Abstract Visual Reasoning

Abstract: Deep learning technology has been widely used in various industries, especially in the field of computer vision. This talk will introduce some research work in the field of computer vision by Dr. Jianfeng Ren's team from the School of Computer Science, University of Nottingham Ningbo China, including deep learning technology in low-level applications such as image enhancement, noise reduction, transformation, and mid-level applications such as target detection, segmentation, recognition, high-level applications such as visual understanding and visual reasoning, and multi-modal analysis such as video question answering, video summarization, etc. Dr. Ren will specifically focus on some case studies of abstract visual reasoning, and some recent work in his team during last few years.

Linlin Yang

Communication University of China, China

Speech Title: Semi-Supervision and Generative Models for 3D RGB Hand

Abstract: Hand pose estimation from single RGB images is an important task in computer vision with a wide range of applications. To reduce the burden of 3D annotation, we present a framework for cross-domain, semi-supervised hand pose estimation and target the challenging scenario of learning models from labeled multi-modal synthetic data and unlabeled real-world data. Moreover, to model the ambiguities of hands during interaction, we introduce generative models and learn a distribution conditioned on the input image.